

Appl. No. 10/041,015
Amdt. dated March 10, 2006
Reply to Office Action of January 13, 2006

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-3. (Canceled).

1 4. (Previously Presented) A customizable application system comprising:
2 an internet application system configured to support an internet application, the
3 internet application system including,
4 a) a user interface generator configured to generate an application user
5 interface, the application user interface including a customizable view all command and
6 configured as an interface between the internet application and a user, and
7 b) a web application server configured to deliver the application user
8 interface to a client, the client configured to display the application user interface to the
9 user;
10 means for a user to specify data to customize the customizable view all command,
11 the data defining a property of a user interface element for the view all command;
12 a data repository configured to store the data, the data defining the property; and
13 means for preserving a state of the customizable view all command between one
14 generation of the application user interface and another generation of the application user
15 interface,
16 wherein the user interface generator is configured to automatically generate the
17 one generation of the application user interface and the another generation of the application user
18 interface, wherein the one generation of the application user interface and the another generation
19 are configured with the property of the view all command for the user interface element.

1 5. (Previously Presented) The customizable application system of claim 4,
2 wherein the customizable view all command is configurable to specify a maximum number of
3 rows to display in the application user interface.

1 6. (Previously Presented) The customizable application system of claim 4,
2 wherein the user interface generator is responsive to an identity of a user.

1 7. (Previously Presented) The customizable application system of claim 4,
2 wherein a state of the customizable view all command is responsive to use of the application user
3 interface in a specific application component.

1 8. (Previously Presented) A system for developing an application user
2 interface associated with an internet application comprising:
3 an integrated development environment configured for a developer to specify a
4 user interface element in the application user interface, the user interface element having a
5 customizable view all command, the integrated development environment configured to receive
6 input from the user defining a property of the view all command, the property to be used to
7 configure the user interface element;
8 an application designer configured to produce metadata characterizing the
9 customizable view all command; and
10 a data repository including a data record associated with the customizable view all
11 command, the data record being user modifiable and being accessible using the identity of a user
12 or the identity of a client,
13 wherein the application user interface is automatically generated and configured
14 with the property of the view all command.

1 9. (Previously Presented) The system of claim 8, wherein the application
2 designer is configured to associate the user interface element with the internet application.

1 10. (Previously Presented) The system of claim 8, wherein the customizable
2 view all command is configurable to specify a maximum number of rows to display in the
3 application user interface.

1 11. (Previously Presented) The system of claim 10, wherein the integrated
2 development environment is further configured to specify display of the customizable view all
3 command in the user interface.

1 12. (Previously Presented) The system of claim 11, wherein the customizable
2 view all command is associated with a table.

1 13. (Previously Presented) The system of claim 11, wherein the user interface
2 element includes multiple rows of data.

1 14. (Previously Presented) The system of claim 8, wherein a state of the
2 customizable view all command is configurable to persist between uses of the application user
3 interface.

1 15. (Previously Presented) The system of claim 8, wherein the metadata
2 includes a query for accessing the data record.

1 16. (Previously Presented) The system of claim 8, wherein the metadata
2 includes a pointer for accessing the data record.

1 17. (Previously Presented) The system of claim 8, wherein the data record is
2 user modifiable using a configuration system.

1 18. (Previously Presented) The system of claim 8, wherein the data record is
2 user modifiable using a personalization system.

1 19. (Previously Presented) The system of claim 18, wherein the
2 personalization system is integrated into the internet application.

1 20. (Previously Presented) A customizable application system comprising:
2 an internet application system configured to support an internet application;
3 a configuration system configured to receive input from the user defining a
4 property of the view all command, the property to be used to configure the user interface
5 element;
6 an application user interface including a user interface element, the application
7 user interface configured as an interface between the internet application and a user, the user
8 interface element including a customizable view all command configured for delivery to a client

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9 over a computer network, wherein the application user interface is automatically generated and
10 configured with the property of the view all command;
11 metadata characterizing the customizable view all command; and
12 a data repository including a data record associated with the customizable view all
13 command, the data record being user modifiable and for storing configuration data defining the
14 property.

1 21. (Previously Presented) The customizable application system of claim 20,
2 wherein the client is configured to display the application user interface using standard web
3 browser protocols.

1 22. (Previously Presented) The customizable application system of claim 20,
2 wherein the client is configured to display the application user interface using features of a web
3 browser, the features not requiring a browser add-on, plug-in, or extension.

1 23. (Previously Presented) The customizable application system of claim 20,
2 further including means for generating the application user interface using the metadata.

1 24. (Previously Presented) The customizable application system of claim 23,
2 wherein the metadata includes a reference to the data record.

1 25. (Previously Presented) The customizable application system of claim 20,
2 further including a personalization system configured to modify the configuration data.

1 26. (Previously Presented) The customizable application system of claim 25,
2 wherein the personalization system is included in the internet application.

1 27. (Previously Presented) An internet application system comprising:
2 a user interface generator configured to generate an application user interface
3 including a user interface element, the application user interface being compatible with a
4 standard web browser and being generated in response to a request from a user, the user interface
5 element including a user customizable view all command, a state of the customizable view all

6 command being responsive to an identity of the user, wherein a property is received from input
7 from the user defining a property of the view all command, the property to be used to configure
8 the user interface element, wherein the application user interface is automatically generated and
9 configured with the property of the view all command;
10 a web application server configured to deliver the application user interface to a
11 client; and
12 an internet application accessible to the user through the application user
13 interface.

1 28. (Previously Presented) The internet application system of claim 27,
2 wherein the user interface generator is further configured to use metadata for characterizing the
3 customizable view all command.

1 29. (Previously Presented) The internet application system of claim 27,
2 wherein the customizable view all command includes selection of a maximum number of rows to
3 display in a table in the user interface.

1 30. (Previously Presented) The internet application system of claim 27,
2 wherein the user interface generator is configured to access a user modifiable data record for
3 characterizing the view all command.

1 31. (Previously Presented) The internet application system of claim 27,
2 wherein the internet application includes a configuration system configured to modify
3 configuration data characterizing the view all command.

1 32. (Previously Presented) The internet application system of claim 27,
2 wherein the client is a wireless system.

1 33. (Previously Presented) An internet application comprising:
2 an application engine including a computer program configured to run using an
3 internet application system;

an application user interface including a user interface element with a user customizable view all command, the application user interface configured for delivery to a client and to operate as an interface between a user and the internet application;

a user modifiable data record stored in a location physically remote from the client, the data record configurable for use by a user interface generator to generate the application user interface, the data record further including configuration data to characterize the user customizable view all command, wherein the data record defines a property received from the user, the property defining the view all command and used to configure the user interface element; and

metadata configurable for use by the user interface generator to access the user modifiable data record,

wherein the application user interface is automatically generated and configured with the property of the view all command.

34. (Previously Presented) The internet application of claim 33, wherein the metadata is configurable to include information for use by the user interface generator to access the user modifiable data record using a query.

35. (Previously Presented) The internet application of claim 33, wherein the user interface generator is responsive to an identity of the client.

36. (Previously Presented) The internet application of claim 33, wherein the user interface generator is responsive to an identity of a user.

37. (Previously Presented) The internet application of claim 33, further including a personalization system configured to modify the user modifiable data record.

38. (Previously Presented) An application user interface for accessing an internet application, the application user interface being generated using metadata and being configured for display on a client using a standard web browser, the metadata being configured to access a user modifiable data record including configuration data characterizing a customizable view all command, the application user interface including the customizable view all command, the configuration data defining a property of the view all command based on input

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7 from the user, the property to be used to configure the application user interface, wherein the
8 application user interface is automatically generated and configured with the property of the
9 view all command.

1 39. (Previously Presented) The application user interface of claim 38, wherein
2 the data record accessed using the metadata is dependant on an identity of a user of the
3 application user interface.

1 40. (Previously Presented) The application user interface of claim 38, wherein
2 the configuration data characterizing the customizable view all command is dependant on an
3 identity of the client.

1 41. (Previously Presented) The application user interface of claim 38, wherein
2 the customizable view all command is configurable to specify a maximum number of rows to
3 display in a table.

1 42. (Previously Presented) The application user interface of claim 38, wherein
2 the user modifiable data record is used to preserve a state of the customizable view all command
3 between a display of the application user interface and a subsequent display of the application
4 user interface.

1 43. (Previously Presented) A customizable application system comprising:
2 an internet application system configured to support an internet application, the
3 internet application associated with metadata configured for generating an application user
4 interface, the internet application system including,
5 a) a web application server configured to deliver the application user
6 interface to a client, and
7 b) an application server configured to generate the application user
8 interface;

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9 an application development system configured to generate the metadata, the
10 metadata being further configured to characterize a view all command included in the application
11 user interface;
12 a configuration system including a configuration engine and a configuration
13 interface, the configuration interface configured for a user to modify configuration data
14 characterizing the view all command, the configuration system configured to receive input from
15 the user defining a property of the view all command, the property to be used to configure the
16 application user interface; and
17 a data repository including a data record for storing the configuration data, the
18 data record being accessible using the metadata,
19 wherein the application user interface is automatically generated and configured
20 with the property of the view all command.

1 44. (Previously Presented) A customizable application system comprising:
2 an internet application system configured to support an internet application, the
3 internet application associated with metadata configured for generating a plurality of application
4 user interfaces each having a view all command, the internet application system including,
5 a) an application server configured to generate the application user
6 interface, and
7 b) a web application server configured to deliver the application user
8 interface to a client;
9 a personalization system including a personalization engine and a user profile
10 interface, the personalization system configured to modify a data record including
11 personalization data based on input from a user defining a property of the view all command, the
12 property to be used to configure the user interface element, the personalization data
13 characterizing the view all command in more than one of the plurality of application user
14 interfaces; and
15 a data repository including the data record for storing the personalization data, the
16 data record being accessible using the metadata wherein the plurality of application user

17 interfaces are automatically generated and configured with the property of the view all
18 command.

1 45. (Previously Presented) The customizable application system of claim 44,
2 wherein the view all command is configurable to specify a maximum number of rows to display
3 in a table.

1 46. (Previously Presented) The customizable application system of claim 44,
2 wherein the personalization data is used to preserve a state of the view all command between two
3 of the plurality of application user interfaces.

1 47. (Previously Presented) A method of developing an application user
2 interface, the method comprising the steps of:
3 receiving input from the user defining a property of the view all command, the
4 property to be used to configure the user interface element;
5 including a customizable view all command in the application user interface,
6 wherein the application user interface is automatically generated and configured with the
7 property of the view all command, the customizable view all command being associated with a
8 data record, the data record being stored in a data repository and holding user modifiable
9 configuration data, the data repository being physically remote from a client used to display the
10 application user interface;
11 generating metadata associated with the customizable view all command, the
12 metadata being for accessing the configuration data; and
13 storing the metadata.

1 48. (Previously Presented) The method of claim 47, wherein the customizable
2 view all command includes a user alterable property specifying a maximum number of rows to
3 include in the application user interface.

1 49. (Previously Presented) The method of claim 47, wherein a property of the
2 customizable view all command is configurable to persist between uses of the application user
3 interface.

1 50. (Previously Presented) The method of claim 47, wherein the application
2 user interface is HTML based and configured for display using a standard web browser.

1 51. (Previously Presented) A method of customizing an application user
2 interface, the method comprising the steps of:
3 accessing a page definition, the page definition including metadata associated
4 with a customizable property of a view all command;
5 accessing a data record using the metadata, the data record being stored in a data
6 repository and being user modifiable in response to receiving input from the user defining a
7 property of the view all command, the property to be used to configure the user interface
8 element, the data repository being physically remote from a client used to display an application
9 user interface;
10 accessing configuration data in the data record, the data record defining the
11 property;
12 determining a value defining the customized property using the configuration
13 data;
14 generating markup-language responsive to the determined value; and
15 including the generated markup-language in the application user interface,
16 wherein the markup-language is usable to automatically generate and configure the application
17 user interface with the property of the view all command.

1 52. (Previously Presented) The method of claim 51, wherein the application
2 user interface is an interface to an internet application.

1 53. (Previously Presented) The method of claim 51, wherein accessing a data
2 record using the metadata is responsive to an identity of a user.

1 54. (Previously Presented) The method of claim 51, wherein the value
2 defining the customized property determines a maximum number of rows to display in the
3 application user interface.

1 55. (Previously Presented) The method of claim 51, wherein the value
2 defining the customized property determines a number of columns to display in the application
3 user interface.

1 56. (Previously Presented) A method of customizing a view all command in
2 an application user interface, the method comprising the steps of:
3 accessing a configuration system, the configuration system including a
4 configuration engine and a configuration interface;
5 selecting, using the configuration interface, a user interface element in an HTML
6 based application user interface, the user interface element including the customizable view all
7 command; and
8 specifying configuration data using the configuration interface, the configuration
9 data characterizing a property of the view all command, and the configuration data being stored
10 in a data repository physically remote from a client used to view the application user interface,
11 wherein the application user interface is automatically generated and configured with the
12 property of the view all command.

1 57. (Previously Presented) The method of claim 56, wherein the configuration
2 data specifies a maximum number of rows to display in the application user interface.

1 58. (Previously Presented) The method of claim 56, further including
2 modifying the configuration data using a personalization system.

1 59. (Previously Presented) The method of claim 56, further including
2 generating the application user interface in response to a request from the client.

1 60. (Previously Presented) The method of claim 56, further including
2 displaying the application user interface on the client using standard web browser protocols.

1 61. (Previously Presented) The method of claim 56, wherein the application
2 user interface is displayed without requiring a browser add-on, plug-in, or extension.

1 62. (Previously Presented) A method of customizing a view all command in
2 an application user interface configured to access an internet application, the method comprising
3 the steps of:

4 accessing a configuration system, the configuration system including a
5 configuration engine and a configuration interface;

6 selecting, using the configuration interface, a customizable view all command in
7 an HTML based application user interface;

8 a user specifying configuration data using the configuration interface, the
9 configuration data characterizing a property of the view all command in the application user
10 interface;

11 saving the specified configuration data; and

12 automatically generating and configuring the application user interface with the
13 property of the view all command using the specified configuration data.

1 63. (Previously Presented) The method of claim 62, further including
2 displaying the application user interface using standard web browser protocols.

1 64. (Previously Presented) The method of claim 63, wherein a state of the
2 customizable view all command persists between a display of the application user interface and
3 another display of the application user interface.

1 65. (Previously Presented) The method of claim 62, further including
2 determining a maximum number of rows generated in the application user interface, using the
3 specified configuration data.

1 66. (Previously Presented) A method of executing an internet application
2 comprising the steps of:
3 receiving a request for a user interface from a client, the user interface including a
4 user interface element;
5 accessing a page definition, the page definition including metadata and defining
6 the requested user interface;

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7 retrieving, using the metadata, a value characterizing a user customizable view all
8 command included in the user interface element, the value being stored in a data repository
9 physically remote from the client, the value received from the user and defining a property of the
10 view all command, the property to be used to configure the user interface element;
11 generating HTML responsive to the value;
12 including the generated HTML in the requested user interface; and
13 delivering the requested user interface to the client, the requested user interface
14 being an interface between a user and the internet application, wherein the user interface is
15 automatically generated and configured with the property of the view all command.

1 67. (Previously Presented) The method of claim 66, wherein the value
2 includes a maximum number of rows to display when all rows are not displayed in the requested
3 user interface.

1 68. (Previously Presented) The method of claim 66, wherein the value is used
2 to preserve a state of the customizable view all command between at least two repetitions of the
3 step of generating HTML.

1 69. (Previously Presented) The method of claim 66, wherein retrieving a value
2 characterizing a customizable view all command using the metadata includes execution of a
3 query.

1 70. (Currently Amended) The method of claim 65 ~~66~~, further including
2 displaying the application user interface using standard web browser protocols.

1 71. (Currently Amended) The method of claim 56 ~~66~~, further including
2 identifying the user, and wherein the step of using the metadata to retrieved a value is responsive
3 to the identity of the user.

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1 72. (Previously Presented) A method of generating at least one application
2 user interface of a plurality of application user interfaces each including a customizable view all
3 command, the method comprising the steps of:
4 accessing a page definition, the page definition including metadata associated
5 with the view all command;
6 accessing the metadata to obtain a reference to a data record;
7 reading configuration data from the data record using the reference, the data
8 record being stored in a data repository and being user modifiable in response to receiving input
9 from the user defining a property of the view all command, the property to be used to configure
10 the user interface element, the data repository being physically remote from a client used to
11 display the application user interface, the configuration data characterizing the customizable
12 view all command in the at least one of the plurality of application user interfaces and in an other
13 of the plurality of application user interfaces;
14 generating HTML responsive to the configuration data, wherein the HTML is
15 usable to automatically generate and configure the application user interface with the property of
16 the view all command; and
17 including the generated HTML in the application user interface.

1 73. (Previously Presented) The method of claim 72, wherein the at least one of
2 the plurality of application user interfaces is displayed to a user and the other of the plurality of
3 application user interfaces is displayed to an other user.

1 74. (Previously Presented) The method of claim 72, wherein the at least one of
2 the plurality of application user interfaces and the other of the plurality of application user
3 interfaces are displayed to a user.

1 75. (Previously Presented) The method of claim 72, wherein the configuration
2 data includes a maximum number of rows to display in the application user interface.

1 76. (Previously Presented) The method of claim 72, wherein the configuration
2 data is used to preserve a state of the customizable view all command between two executions of
3 the step of generating HTML.

1 77. (Previously Presented) The method of claim 72, further including
2 delivering, using a web application server, the application user interface to the client.

1 78. (Previously Presented) The method of claim 72, wherein reading
2 configuration data from the data record using the reference includes execution of a query.

1 79. (Previously Presented) The method of claim 72, further including
2 displaying the application user interface using standard web browser protocols.

1 80. (Previously Presented) The method of claim 72, wherein reading
2 configuration data from the data record using the reference includes using an identity of a user.

1 81. (Previously Presented) A method of generating a customized application
2 user interface configured for delivery from a server to a client, the method comprising the steps
3 of:

4 receiving, at a server, a request for an application user interface from a client;
5 identifying the requester of the application user interface;
6 accessing a page definition, the page definition including metadata and defining
7 the requested application user interface;

8 retrieving a value relating to a customizable view all command, using the
9 metadata and the identity of the requester, the value being stored in a data repository physically
10 remote from the client, the value received from the user and defining a property of the view all
11 command, the property to be used to configure the user interface element;

12 generating HTML characterizing the view all command, using the value;
13 including the generated HTML in the requested application user interface; and
14 delivering the requested application user interface from the server to the client,
15 wherein the user interface is automatically generated and configured with the property of the
16 view all command.

1 82. (Previously Presented) The method of claim 81, wherein the value
2 includes a maximum number of rows to display in the application user interface.

1 83. (Previously Presented) The method of claim 81, wherein the value is used
2 to preserve a state of the view all command between one generation and another generation of
3 the application user interface.

1 84. (Previously Presented) The method of claim 81, further including
2 displaying the application user interface using standard web browser protocols.

1 85. (Previously Presented) The method of claim 81, wherein the value is
2 configuration data.

1 86. (Previously Presented) A computer readable medium including an internet
2 application, the internet application comprising:
3 metadata defining an application user interface, the application user interface
4 including a user interface element with a user customizable view all command, the application
5 user interface configured for delivery to a client and configured to operate as an interface
6 between a user and the internet application;
7 a user interface generator configured to generate the application user interface
8 using a user modifiable data record stored in a location physically remote from the client, the
9 user modifiable data record configurable to characterize the user customizable view all
10 command; and
11 a configuration system configured for a user to modify the user modifiable data
12 record defining a property of the view all command, the property to be used to configure the user
13 interface element,
14 wherein the application user interface is automatically generated and configured
15 with the property of the view all command.

1 87. (Previously Presented) A computer readable medium including an internet
2 application, the internet application comprising:

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3 an application designer configured to develop an application user interface, the
4 application user interface including a user interface element with a user customizable view all
5 command, the application user interface configured for delivery to a client and configured to
6 operate as an interface between a user and the internet application;
7 a user interface generator configured to generate the application user interface
8 using a user modifiable data record stored in a location physically remote from the client, the
9 user modifiable data record configurable to characterize the customizable view all command; and
10 a configuration system configured for a user to modify the user modifiable data
11 record defining a property of the view all command, the property to be used to configure the user
12 interface element,
13 wherein the application user interface is automatically generated and configured
14 with the property of the view all command.

1 88. (Previously Presented) An application execution system comprising:
2 means for supporting an internet application;
3 means for generating an application user interface using a user modifiable data
4 record configured to store data characterizing a user customizable view all command, the data
5 received from the user and defining the property of the view all command, the property to be
6 used to configure the user interface element, wherein the user interface is automatically
7 generated and configured with a property of the view all command; and
8 means for providing the application user interface to a user, the application user
9 interface including a user interface element, the application user interface configured as an
10 interface between the internet application and the user, the user interface element including the
11 user customizable view all command, the user interface element configured for delivery to a
12 client over a computer network.